

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

FRICK 0151TFMNLHAC03 Component

Refrigeration Compressor USPI 1009-68 SC (36 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





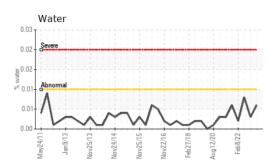
SAMPLE INFORM	MAT <u>ION</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		USP246495	USP241783	USP230968
Sample Date		Client Info		14 Aug 2023	03 Feb 2023	08 Aug 2022
Machine Age	hrs	Client Info		29434	27048	24608
Oil Age	hrs	Client Info		0	0	24608
Oil Changed	1115	Client Info		N/A	N/A	Not Changd
		Client Inio		NORMAL	NORMAL	NORMAL
Sample Status				-		-
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Volybdenum	ppm	ASTM D5185m		0	0	0
Vanganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		0	0	<1
		ASTM D5185m		0	0	<1
Phosphorus Zinc	ppm	ASTM D5185m		0	0	0
-	ppm		50	-		2
Sulfur	ppm	ASTM D5185m	50	0	4	
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m		<1	<1	0
Water	%	ASTM D6304	>0.01	0.006	0.003	0.008
opm Water	ppm	ASTM D6304	>100	61.8	37.4	84.4
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	3619	5393	1189
Particles >6µm		ASTM D7647	>2500	844	896	188
Particles >14µm		ASTM D7647	>320	55	14	7
Particles >21µm		ASTM D7647	>80	13	4	3
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/13	20/17/11	17/15/10
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.015	0.015
			5.000			

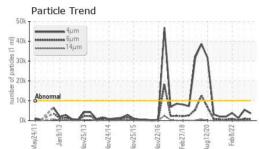
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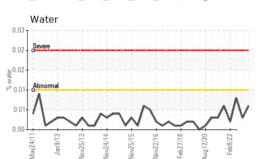
Contact/Location: SAM SURACE - DOTLIV



OIL ANALYSIS REPORT







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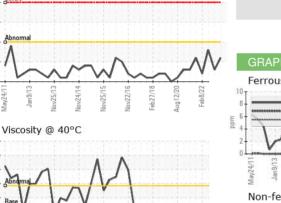
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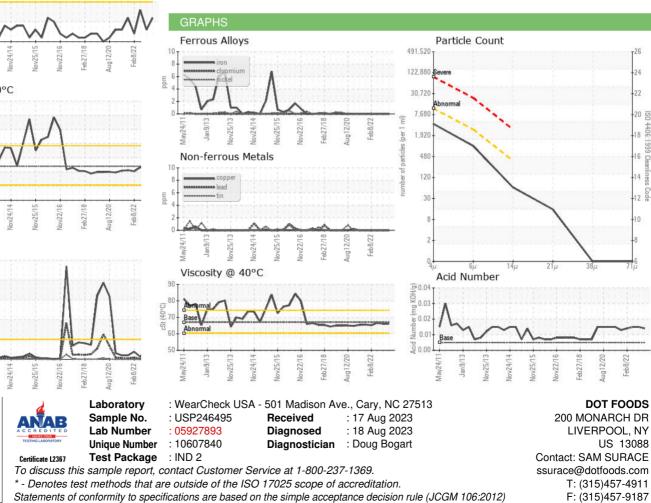
Particle Trend

(40°C)

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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	66.1	66.0	66.6
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						48 1) 245905 2007 40
Bottom				6		



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